

RECEIVED

JUL 10 2003

TECH CENTER 1600/2900



1600

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/732,348A

DATE: 07/01/2003

TIME: 15:59:30

Input Set : A:\67453801.app

Output Set: N:\CRF4\07012003\I732348A.raw

3 <110> APPLICANT: CHOO, YEN
 4 ULLMAN, CHRISTOPHER GRAEME
 5 CHUA, NAM-HAI
 6 SANCHEZ, JUAN PABLO
 8 <120> TITLE OF INVENTION: REGULATED GENE EXPRESSION IN PLANTS
 10 <130> FILE REFERENCE: 674538-2001
 12 <140> CURRENT APPLICATION NUMBER: 09/732,348A
 13 <141> CURRENT FILING DATE: 2000-12-07
 15 <150> PRIOR APPLICATION NUMBER: PCT/GB00/02071
 16 <151> PRIOR FILING DATE: 2000-05-30
 18 <150> PRIOR APPLICATION NUMBER: GB 9912635.1
 19 <151> PRIOR FILING DATE: 1999-05-28
 21 <150> PRIOR APPLICATION NUMBER: GB 001578.4
 22 <151> PRIOR FILING DATE: 2000-01-24
 24 <150> PRIOR APPLICATION NUMBER: GB 0001580.0
 25 <151> PRIOR FILING DATE: 2000-01-24
 27 <160> NUMBER OF SEQ ID NOS: 33
 29 <170> SOFTWARE: PatentIn Ver. 2.1
 31 <210> SEQ ID NO: 1
 32 <211> LENGTH: 17
 33 <212> TYPE: DNA
 34 <213> ORGANISM: Artificial Sequence
 36 <220> FEATURE:
 37 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic DNA
 38 sequence
 40 <400> SEQUENCE: 1
 41 aaggagat aacaatg
 44 <210> SEQ ID NO: 2
 45 <211> LENGTH: 10
 46 <212> TYPE: DNA
 47 <213> ORGANISM: Artificial Sequence
 49 <220> FEATURE:
 50 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic DNA
 51 sequence
 53 <400> SEQUENCE: 2
 54 gtcgaccatg
 57 <210> SEQ ID NO: 3
 58 <211> LENGTH: 60
 59 <212> TYPE: DNA
 60 <213> ORGANISM: Artificial Sequence
 62 <220> FEATURE:
 63 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic DNA
 64 sequence

P. 6

ENTERED

17

10

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/732,348A

DATE: 07/01/2003

TIME: 15:59:30

Input Set : A:\67453801.app

Output Set: N:\CRF4\07012003\I732348A.raw

66 <400> SEQUENCE: 3
 67 ctccctgcagt tggacctgtg ccatggccgg ctggggccca tagaatggaa caactaaagc 60
 70 <210> SEQ ID NO: 4
 71 <211> LENGTH: 995
 72 <212> TYPE: DNA
 73 <213> ORGANISM: Artificial Sequence
 75 <220> FEATURE:
 76 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic DNA
 77 sequence
 79 <400> SEQUENCE: 4
 80 tcttagagcgc cgccatggga gagaaggcgc tgccggtggt gtataagcgg tacatctgct 60
 81 ctttcggcga ctgcggcgct gcttataaca agaactggaa actgcaggcg catctgtgca 120
 82 aacacacagg agagaaacca ttccatgtt aggaagaagg atgtgagaaa ggctttacct 180
 83 cgcttcatca cttaaccgc cactcactca ctcatactgg cgagaaaaac ttcacatgtg 240
 84 actcggatgg atgtgacttg agatttacta caaaggcaaa catgaagaag cacttaaca 300
 85 gattccataa catcaagatc tgctgttatg tgtgcattt tgagaactgt ggcaaagcat 360
 86 tcaagaaaaca caatcaatta aaggttcattc agttcagtca cacacagcag ctgcgtatg 420
 87 ctggccctgt cgagtcctgc gatgccgcgt ttctcgctc ggatgagctt accggccata 480
 88 tccgcattcca cacaggccag aagccattcc agtgtcgaat ctgcattgcgt aacttcagtc 540
 89 gtagtgacca ctttaccacc cacatccgca cccacacagg cgagaagctt ttgcctgtg 600
 90 acatttggg gaggaagttt gccaggagtg atgaacgcaa gaggcataacc aaaatccatt 660
 91 taagacagaa ggacgcggcc gcactcgagc ggaattccgg cccaaaaaag aagagaaagg 720
 92 tcgcgcgcgc gaccgatgtc agcctgggg acgagctcca cttagacggc gaggacgtgg 780
 93 cgatggcgca tgccgcacgcg cttagacgatt tcgatctgg catgttggg gacggggatt 840
 94 ccccggggccc gggatttacc ccccacgact ccgcgcctta cggcgctctg gatacggccg 900
 95 acttcgagtt tgagcagatg ttaccatgt cccttggaaat tgacgagttac ggtggggaaac 960
 96 aaaaacttat ttctgaagaa gatctgtaa gatcc 995
 99 <210> SEQ ID NO: 5
 100 <211> LENGTH: 947
 101 <212> TYPE: DNA
 102 <213> ORGANISM: Artificial Sequence
 104 <220> FEATURE:
 105 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic DNA
 106 sequence
 108 <400> SEQUENCE: 5
 109 tcttagagcgc cgccatggga gagaaggcgc tgccggtggt gtataagcgg tacatctgct 60
 110 ctttcggcga ctgcggcgct gcttataaca agaactggaa actgcaggcg catctgtgca 120
 111 aacacacagg agagaaacca ttccatgtt aggaagaagg atgtgagaaa ggctttacct 180
 112 cgcttcatca cttaaccgc cactcactca ctcatactgg cgagaaaaac ttcacatgtg 240
 113 actcggatgg atgtgacttg agatttacta caaaggcaaa catgaagaag cacttaaca 300
 114 gattccataa catcaagatc tgctgttatg tgtgcattt tgagaactgt ggcaaagcat 360
 115 tcaagaaaaca caatcaatta aaggttcattc agttcagtca cacacagcag ctgcgtatg 420
 116 ctggccctgt cgagtcctgc gatgccgcgt ttctcgctc ggatgagctt accggccata 480
 117 tccgcattcca cacaggccag aagccattcc agtgtcgaat ctgcattgcgt aacttcagtc 540
 118 gtagtgacca ctttaccacc cacatccgca cccacacagg cgagaagctt ttgcctgtg 600
 119 acatttggg gaggaagttt gccaggagtg atgaacgcaa gaggcataacc aaaatccatt 660
 120 taagacagaa ggacgcggcc gcactcgagc ggaattccgg cccaaaaaag aagagaaagg 720
 121 tcgaacttca gctgacttcg gatgcattag atgacttga ctttagatatg ctaggatctg 780
 122 acgcgctaga cgatttcgat ctggacatgt tggcagcga tgctctagac gatttcgatt 840

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/732,348A

DATE: 07/01/2003

TIME: 15:59:30

Input Set : A:\67453801.app

Output Set: N:\CRF4\07012003\I732348A.raw

123 tagatatgct tggctcgat gccctggatg acttcgacct cgacatgctg tcaagtcagc 900
124 tgagccagga acaaaaactt atttctgaag aagatctgta aggatcc 947
127 <210> SEQ ID NO: 6
128 <211> LENGTH: 14
129 <212> TYPE: DNA
130 <213> ORGANISM: Artificial Sequence
132 <220> FEATURE:
133 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic DNA
134 sequence
136 <400> SEQUENCE: 6
137 aaggagatat aaca 14
140 <210> SEQ ID NO: 7
141 <211> LENGTH: 29
142 <212> TYPE: DNA
143 <213> ORGANISM: Artificial Sequence
145 <220> FEATURE:
146 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic DNA
147 sequence
149 <400> SEQUENCE: 7
150 tgcgtggcg tgtacctgga tgggagacc 29
153 <210> SEQ ID NO: 8
154 <211> LENGTH: 35
155 <212> TYPE: DNA
156 <213> ORGANISM: Artificial Sequence
158 <220> FEATURE:
159 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic DNA
160 sequence
162 <400> SEQUENCE: 8
163 ccacgcgtcc atggagaga aggcgcgtgcc ggtgg 35
166 <210> SEQ ID NO: 9
167 <211> LENGTH: 44
168 <212> TYPE: DNA
169 <213> ORGANISM: Artificial Sequence
171 <220> FEATURE:
172 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic DNA
173 sequence
175 <400> SEQUENCE: 9
176 ccactagtcc ttacagatct tcttcagaaa taagttttt 44
179 <210> SEQ ID NO: 10
180 <211> LENGTH: 148
181 <212> TYPE: DNA
182 <213> ORGANISM: Artificial Sequence
184 <220> FEATURE:
185 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic DNA
186 sequence
188 <400> SEQUENCE: 10
189 cctctagatc ggtctccat ccaggtacac gcccacgcaa gtcggctctcc catccaggt 60
190 cacgccccacg caagtcggtc tcccatccag gtacacgccc acgcaagtgc gtctccatc 120
191 caggtacacg cccacgcaag aagcttcc 148

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/732,348A

DATE: 07/01/2003

TIME: 15:59:30

Input Set : A:\67453801.app

Output Set: N:\CRF4\07012003\I732348A.raw

194 <210> SEQ ID NO: 11
195 <211> LENGTH: 148
196 <212> TYPE: DNA
197 <213> ORGANISM: Artificial Sequence
199 <220> FEATURE:
200 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic DNA
201 sequence
203 <400> SEQUENCE: 11
204 ggaagcttct tgcgtggcg tgtacctgga tgggagaccg acttgcgtgg gcgtgtaccc 60
205 gatatggaga ccgacttgcg tggcgtgtta cctggatggg agaccgactt gcgtgggcgt 120
206 gtacctggat gggagaccga tcttagagg 148
209 <210> SEQ ID NO: 12
210 <211> LENGTH: 45
211 <212> TYPE: DNA
212 <213> ORGANISM: Artificial Sequence
214 <220> FEATURE:
215 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic DNA
216 sequence
218 <400> SEQUENCE: 12
219 ccagatctgg tctccatcc aggtacacgc ccacgcaaga tctcc 45
222 <210> SEQ ID NO: 13
223 <211> LENGTH: 46
224 <212> TYPE: DNA
225 <213> ORGANISM: Artificial Sequence
227 <220> FEATURE:
228 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic DNA
229 sequence
231 <400> SEQUENCE: 13
232 ggagatcttg cgtggcgtg tacctggatg ggagaccaga tctcgg 46
235 <210> SEQ ID NO: 14
236 <211> LENGTH: 34
237 <212> TYPE: DNA
238 <213> ORGANISM: Artificial Sequence
240 <220> FEATURE:
241 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic DNA
242 sequence
244 <400> SEQUENCE: 14
245 ccccatggtg agcaagggcg aggagctgtt cacc 34
248 <210> SEQ ID NO: 15
249 <211> LENGTH: 35
250 <212> TYPE: DNA
251 <213> ORGANISM: Artificial Sequence
253 <220> FEATURE:
254 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic DNA
255 sequence
257 <400> SEQUENCE: 15
258 ccgaattctt acttgtacag ctcgtccatg ccgag 35
261 <210> SEQ ID NO: 16
262 <211> LENGTH: 28

RAW SEQUENCE LISTING DATE: 07/01/2003
PATENT APPLICATION: US/09/732,348A TIME: 15:59:30

Input Set : A:\67453801.app
Output Set: N:\CRF4\07012003\I732348A.raw

263 <212> TYPE: DNA
264 <213> ORGANISM: Artificial Sequence
266 <220> FEATURE:
267 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic DNA
268 sequence
270 <400> SEQUENCE: 16
271 ccctcgagcg gggtaaccgcg ggccccggg 28
274 <210> SEQ ID NO: 17
275 <211> LENGTH: 30
276 <212> TYPE: DNA
277 <213> ORGANISM: Artificial Sequence
279 <220> FEATURE:
280 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic DNA
281 sequence
283 <400> SEQUENCE: 17
284 cagttggaat tcttagatgtcg cggccgcgtac 30
287 <210> SEQ ID NO: 18
288 <211> LENGTH: 38
289 <212> TYPE: DNA
290 <213> ORGANISM: Artificial Sequence
292 <220> FEATURE:
293 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic DNA
294 sequence
296 <400> SEQUENCE: 18
297 ccgctcgagg ccccccgcac cgatgtcagc ctggggga 38
300 <210> SEQ ID NO: 19
301 <211> LENGTH: 38
302 <212> TYPE: DNA
303 <213> ORGANISM: Artificial Sequence
305 <220> FEATURE:
306 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic DNA
307 sequence
309 <400> SEQUENCE: 19
310 ccgctcgagt attaatttga gaatgaacaa aaaggacc 38
313 <210> SEQ ID NO: 20
314 <211> LENGTH: 38
315 <212> TYPE: DNA
316 <213> ORGANISM: Artificial Sequence
318 <220> FEATURE:
319 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic DNA
320 sequence
322 <400> SEQUENCE: 20
323 gccattaatc ggaatgggag agaaggcgct gccgggtgg 38
326 <210> SEQ ID NO: 21
327 <211> LENGTH: 32
328 <212> TYPE: DNA
329 <213> ORGANISM: Artificial Sequence
331 <220> FEATURE:
332 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic DNA

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 07/01/2003
PATENT APPLICATION: US/09/732,348A TIME: 15:59:31

Input Set : A:\67453801.app
Output Set: N:\CRF4\07012003\I732348A.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:22; Xaa Pos. 1,3,4,5,6,8,9,10,12,13,14,15,16,18,19,21,22,23